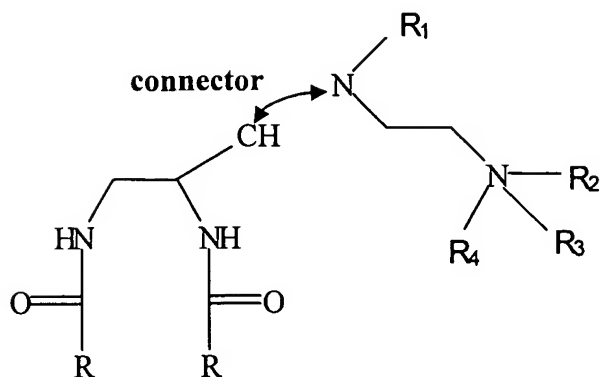


Claims

1. Cationic lipids of the general formula S for nucleic acid delivery *in vitro* and *in vivo*.



Structure S of cationic lipids for claim 1.

$R = C_{11}H_{23}, C_{13}H_{27}, C_{15}H_{31}, C_{17}H_{35}, C_{17}H_{31}$

$R_1 = H, CH_3, CH_2CH_2NH_2, CH_2CH_2NHCH_3, CH_2CH_2N(CH_3)_2, CH_2CH_2NH-C(NH_2)=NH$

$R_2 = H, CH_3$

$R_3 = H, CH_3$

$R_4 = H, CH_3$

connector \rightarrow : $-CH_2-$, $-CO-$, $-OCO-$, CH_2CH_2 , $-CH_2CO-$, CH_2OCO- , $-CH_2CH_2CO-$, $-CH_2CH_2OCO-$

The **connector** shows how the two parts of structure S can be chemically linked together.

2. The delivery system of claim 1 and any other ingredient that is added to the system of claim 1 for biological activity or any other technological reason.